Amendments to the Claims:

Please use the following listing of claims to replace all prior versions, and listings, of the claims in the above-identified application.

Listing of Claims:

- 1 Claim 1 (Original)
- 2 A corner-cube reflector having three reflective surfaces comprising:
- at least one of said reflective surfaces being a surface of a bimaterial cantilever that
- 4 changes between a substantially planar shape and a curved shape upon exposure to an agent of
- 5 interest.
- 1 Claim 2 (Original)
- 2 The apparatus of claim 1 wherein said bimaterial cantilever is chosen from the bimaterial
- group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4.
- 1 Claim 3 (Original)
- 2 The apparatus of claim 1 wherein an agent sensitive coating is disposed on a surface of
- 3 said bimaterial cantilever, said agent sensitive coating being substantially transparent to said
- 4 electromagnetic radiation.

- Claim 4 (Original)

 The apparatus of claim 1 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially reflective of said
- said bimaterial cantilever, said agent sensitive coating being substantially reflective of said
 electromagnetic radiation.
- 1 Claim 5 (Withdrawn)
- 2 An apparatus comprising:
- a reflector having three reflective surfaces that are mutually orthogonal when said reflector is in a first condition, wherein at least one of said reflective surfaces is a surface of a bimaterial cantilever that goes from a substantially planar shape when said reflector is in said first condition to a curved shape when said reflector is in a second condition;
- a source of electromagnetic radiation for projecting said electromagnetic radiation to said reflector; and
- a detector disposed to receive electromagnetic radiation as reflected from said reflector.
- 1 Claim 6 (Withdrawn)
- The apparatus of claim 5 wherein said bimaterial cantilever is chosen from the bimaterial group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4.
- 1 Claim 7 (Withdrawn)

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The apparatus of claim 5 wherein an agent sensitive coating is disposed on a surface of file\t:\patent\pal.pat\nc\84930\84930amd.wpd -5-

- said bimaterial cantilever, said agent sensitive coating being substantially transparent to said electromagnetic radiation.
- 1 Claim 8 (Withdrawn)
- The apparatus of claim 5 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially reflective of said
- 4 electromagnetic radiation.
- 1 Claim 9 (Withdrawn)
- The apparatus of claim 5 wherein said detector detects the intensity of electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 10 (Withdrawn)
- 2 The apparatus of claim 5 wherein said detector detects the phase of electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 11 (Withdrawn)
- The apparatus of claim 5 wherein said detector detects the angle of said electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 12 (Withdrawn)

2 A sensor comprising:

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a corner cube reflector having three reflective surfaces that are mutually orthogonal in a first sensing condition, wherein at least one of said reflective surfaces is a surface of a bimaterial cantilever that goes from a substantially planar shape when said corner cube reflector is in said first sensing condition to a curved shape when said corner cube reflector is in a second sensing condition;

a source of electromagnetic radiation for projecting said electromagnetic radiation to said corner cube reflector; and

a detector disposed to receive electromagnetic radiation as reflected from said cornercube reflector, said received electromagnetic radiation having of a first state corresponding to said first sensing condition of said corner cube reflector and having of a second state different from said first state and corresponding to said second sensing condition of said corner cube.

1 Claim 13 (Withdrawn)

The apparatus of claim 12 wherein said bimaterial cantilever is chosen from the bimaterial group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4.

Claim 14 (Withdrawn)

The apparatus of claim 12 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially transparent to said electromagnetic radiation.

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Claim	13	(Withdrawn	ı

The apparatus of claim 12 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially reflective of said electromagnetic radiation.

Claim 16 (Withdrawn)

A sensing method comprising the steps of:

providing a corner cube reflector having three reflective surfaces that are mutually orthogonal in a first sensing condition, wherein at least one of said reflective surfaces is a surface of a bimaterial cantilever that goes from a substantially planar shape when said corner cube reflector is in said first sensing condition to a curved shape when said corner cube reflector is in a second sensing condition;

providing a source of electromagnetic radiation for projecting electromagnetic radiation to said corner-cube reflector; and

providing a detector disposed to receive electromagnetic radiation as reflected from said corner-cube reflector, wherein said received electromagnetic radiation has a first state corresponding to said first sensing condition of said corner cube reflector and has a second state different from said first state and corresponding to said second sensing condition of said corner cube.

- 1 Claim 17 (Withdrawn)
- The method of claim 16 further comprising the step of coating a surface of said bimaterial
- 3 cantilever with an agent sensitive coating that is substantially transparent to said electromagnetic
- 4 radiation.
- 1 Claim 18 (Withdrawn)
- The apparatus of claim 16 wherein an agent sensitive coating is disposed on a surface of
- said bimaterial cantilever, said agent sensitive coating being substantially reflective of said
- 4 electromagnetic radiation.